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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

CONSTRUCTION STATUS OF SOVIET

SINGLE SILO ICBM SITES

Declassification Review
by NIMA/DoD

25X

25X

CIA/PIR 61110

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CONSTRUCTION STATUS OF SOVIET SINGLE SILO ICBM SITES

Relatively poor quality photography, combined with heavy snow cover during [] precluded the effective use of [] and [] for the analysis of construction progress at Soviet single silo complexes. Nevertheless, fourteen probable, possible, and suspect Type III-C ICBM sites were identified at Imeni Gastello, Zhangiz Tobe, and Dombarovski. In addition a probable new group of Type III-D ICBM sites at Tatishchevo, and a possible complex command control center adjacent to the transfer point at Drovyanaya, were identified. Suspect activity 20 nautical miles southeast of the latter complex may indicate expansion in that direction, but the large distance between this activity and the known groups tends to cast doubt on this possibility.

For some time there has been speculation as to why Launch Site K-3, Tyuratam Missile Test Center was not utilized as the control site for the "L" group. From its location, the construction of Launch Site L-1 appeared to be an unnecessary duplication of facilities since it is situated only a short distance from Site K-3. The identification of an additional control site near the transfer point at some of the deployed complexes offers a possible explanation to the Tyuratam situation, i.e., that for training and/or system developmental purposes, it was desirable to duplicate at Tyuratam the command structure found at the deployed complexes.

It is also interesting to note that after more than two years of deployment, the number of confirmed and probable Type III-C and Type III-D launch groups identified now both stand at seventeen (if only two groups are counted at Perm). In this sense, both deployment programs are proceeding at a parallel pace.

A formidable number of problems remain to be resolved at all of the single silo complexes on future coverage. Among these are:

1. The evaluation of suspect activity at Svobodny.
2. The identification of "L"-shaped interferometers at Drovyanaya, Perm, and Gladkaya, where none have yet been seen.
3. The identification of several control sites at Perm, Gladkaya, and Tatishchevo.
4. The determination of the site grouping at Perm.
5. The possible appearance of control sites near all transfer points.

TOP SECRET

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CIA/PIR-61110

6. The confirmation of 30 Type III-D sites and 19 Type III-C sites in the probable, possible, or suspect categories.

7. The identification of 17 Type III-D sites and 5 Type III-C sites to fill existing probable or confirmed groups.

8. The determination as to whether or not the earlier Type III-D groups at Olovyannaya, Perm, Gladkaya, and Tatishchevo, and certain Type III-C sites have been completed.

9. An explanation for the anomalous orientations of Launch Site L-2 (150 degrees) and L-3 (280 degrees), Tyuratam Missile Test Center.

10. A determination of the function of a small building which is now being added to each site of the "I" group, Tyuratam Missile Test Center. This building is placed consistently approximately 100 feet from the silo and approximately 45 degrees to the left of the level access road.

The total single silo count through [] is given below. This reflects a 30 percent increase in total deployed ICBM launch sites and a 20 percent increase in total deployed ICBM launchers since []

<u>ICBM Type</u>	<u>Confirmed</u>	<u>Probable</u>	<u>Possible</u>	<u>Suspect</u>
III-C	79	8	5	6
III-D	125	11	11	8

Construction status sheets for the appropriate complexes are appended. Also included are definitions of the construction stages used by IAD in preparing reports (Figure 1).

REFERENCES

TOP SECRET

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FIGURE 1

SINGLE SILO CONSTRUCTION STAGES

TYPE III-C

<u>STAGE</u>	<u>DESCRIPTION</u>
NEG	Site construction not yet started
I	Clearing and grading
II	Open cut excavation
III	Coring visible
IVa	Ramps/forms under construction for silo
IVb	Clearing and excavation for guidance and control
V	Silo per se finished (to surface level)
VIa	Backfill silo
VIb	Control and guidance under construction
VII	Silo door installed
VIII	Control and guidance finished
IX	Final backfill and grading (final signature)
ID ONLY	Site can be located but construction details are not discernible

TYPE III-D

NEG	Site construction not yet started
I	Clearing and grading
II	Open cut excavation
III	Coring visible
IVa	Ramps/forms under construction for silo
IVb	Clearing and excavation for guidance and control
V	Silo per se finished (to surface level)
VIa	Installation of rail-like objects
VIb	Guidance/control under construction
VII	Road pattern well-defined, environmental cover often visible over silo
VIII	Guidance/control completed
IX	Level access road complete, surfacing of road and installation of silo door
X	Site complete

TOP SECRET

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DOCUMENTS

CIA/PIR-61102, Construction Status of Soviet Single Silo
ICBM Sites (TOP SECRET)

CIA/PIR-61093, Construction Status of Soviet Single Silo
ICBM Sites (TOP SECRET)

CIA/PIR-61089, Analysis of Soviet Type III-D ICBM Launch
Sites (TOP SECRET)

CIA/PIR-61028, Analysis of Soviet Type III-C ICBM Launch
Sites (TOP SECRET)

CIA/PIR-61063, Construction Status of Soviet Single Silo
ICBM Sites (TOP SECRET)

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ICBM Sites as of (TOP SECRET)

M/EB 565/64, Construction Timing of Single Silo ICBM Sites,
USSR (TOP SECRET)

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Sites, USSR (TOP SECRET)

REQUIREMENT

C-RR6-83,518

CIA/IAD PROJECT

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TOP SECRET

DOMBAROVSKIY ICBM COMPLEX

Old Designation	New Designation	Stage of Construction										
A		ID	5	ID			6A	9	ID	C		
B****		ID	5 6B				ID 6B	9 6B	ID	C 6B	ID 6B	
C		4A	ID	ID			ID	9	ID	C		
D		4A	4A	ID				6A	ID	ID	ID	
E		4A	4A	ID	4A		ID	6A	ID		ID	
F			N		2	ID	ID	ID	ID		ID	
G			N				2	4A	ID	4A	ID	
H			N				2	4A	ID	4A	ID	
I				N			ID	4A	ID		ID	
J****				N			ID	4B	ID	6B	ID	
K				N			2	4A	ID	ID	ID	
L							N	2	ID		ID	
M**								N	ID	ID	ID	
Undesignated Near T.P.***	Q***						N	ID	ID	ID	ID	

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

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DOMBAROVSKIY ICBM COMPLEX
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N - Negation
ID - Identification Only
C - Completed Site

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TOP SECRET

TOP SECRET 22

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DROVYANNAYA ICBM COMPLEX

Old Designation	New Designation	Stage of Construction										
1	G-1	6A	7	ID	9		ID	10				
2	G-2****	ID 6B	7 6B	ID	9 6B	ID	ID	10				
3	G-3	ID	7	ID	9		ID	10				
4	G-4	ID	7	ID	9	ID	ID	10				
5	G-5	6A	7	ID	9		ID	10				
6	G-6	7	9	ID	ID	ID	ID	10				
7	G-7	6A	7	ID	9	ID	ID	10				
8	G-8	ID	7	ID	9	ID	ID	10				
9		ID										
10												
11	G-9	7	7	ID	9		ID	10				
12	G-10	6A	7	ID	9	ID	ID	9	9	ID	ID	
Undesignated at T.P.**										N		

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

DROVYANNAYA ICBM COMPLEX

Old Designation	New Designation	Stage of Construction										
	H-1	9	ID									
	H-2	9	ID									
	H-3	9	ID									
	H-4	9	ID									
	H-5	9	ID									
	H-6	9	ID									
	H-7****	9 6B	ID									
	H-8		ID									
H-9			9									
H-10			ID									
Undesignated at T.P.**		2	2									

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

IMENI GASTELLO ICBM COMPLEX

Old Designation	New Designation	Stage of Construction											
A		ID	ID										
B		ID	ID										
C		ID	ID										
D****		C 6B	ID										
E													
F		ID											
G****		ID 6B	ID										
H		4A	ID										
I		ID	ID										
J		4A											
K		ID	ID										
L		ID	ID										
M		ID	ID										
N		ID											

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site
 N - Negation
 ID - Identification Only
 C - Completed Site

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X1

N - Negation
ID - Identification Only
C - Completed Site

KARTALY ICBM COMPLEX

Old Designation	New Designation	Stage of Construction									
A****											
B											
C											
D											
E											
F											
G											
H****		ID									
I											
J											
K											
L**											
M**											
N*											

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

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OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation	Stage of Construction													
D-1		ID	7	ID	ID	ID	9	ID	ID						
D-2		7	7	ID	9	ID	9	ID	ID						
D-3		7	7	ID	9	ID	9	ID	ID						
D-4					9	9	9	ID	ID						
D-5		7	7	ID	9	ID	9	ID	ID						
D-6		7	7	ID	9	ID	9	ID	ID						
D-7 ****		6B	6B	ID	9	ID	9	ID	ID						
D-8					9	ID	9	ID	ID						
D-9		7	ID	ID	9		9	ID	ID						
D-10		ID	7	ID	9	ID	9	ID	ID						

* Probable Site N - Negation
 ** Possible Site ID - Identification Only
 *** Suspect Site C - Completed Site
 **** Control Site

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OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation	Stage of Construction											
E-1 ****		5 6B	5 6B	ID	6A 6B	9 6B		9 6B		ID	9 6B	ID	
E-2		6A	6A	ID	9	9		9		ID		ID	
E-3		6A	6A	ID	9	ID		9	ID	ID	ID	ID	
E-4		ID	ID	ID	6A	ID		9	9	ID	ID	ID	
E-5		ID	6A	ID	9	9		9		ID	9	ID	
E-6		6A	6A	ID	6A	9	ID	9		ID	9	ID	
E-7		ID	6A	6A	9	ID		9		ID	9	ID	
E-8		6A	6A	ID	6A	9		9		ID	9	ID	
E-9		6A	6A	ID	6A	ID		9		ID	9	ID	
E-10		ID	4A	ID	6A	ID		ID		ID	ID	ID	

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

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OLOVYANNAYA ICBM COMPLEX

continued

Old Designation	New Designation	Stage of Construction											
F-1 ****			ID	6A 6B	ID								
F-2			ID	6A	ID								
F-3			ID	5	ID								
F-4		5	ID	ID	ID								
F-5			ID	5	ID								
F-6		5	ID	ID	ID								
F-7		5 6B	ID		ID								
F-8		4A	ID		ID								
F-9		5	ID	ID	ID								
F-10		4A	ID		ID								
F-11****		4A	ID		ID								

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site
 N - Negation
 ID - Identification Only
 C - Completed Site

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OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation	Stage of Construction										
G-1****		ID										
G-2		ID										
G-3		ID										
G-4		ID										
G-5		ID										
G-6		ID										
G-7		ID										
G-8		ID										
G-9		ID										
G-10		ID										

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

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OLOVYANNAYA ICBM COMPLEX

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* Probable Site
** Possible Site
*** Suspect Site
**** Control Site

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N - Negation
ID - Identification Only
C - Completed Site

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TOP SECRET

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TATISHCHEVO ICBM COMPLEX

Old Designation	New Designation	Stage of Construction										
A-1 ****		ID	9 6B	6B	9 6B	ID	ID 6B	ID 6B			ID	
A-2		ID	ID	6A	ID	ID	9	9			ID	
A-3		ID	9		9	ID	9	ID		ID	ID	
A-4			Dropped									
A-5		ID	9		9	ID	9	9			ID	
A-6		ID	7	7	7	ID	9	ID			ID	
A-7		ID	6A	ID	6A	ID	ID	9			ID	
A-8		ID	6A	6A	9	ID	9	9			ID	
A-9		ID	6A	ID	6A	ID	9	9			ID	
A-10		ID	6A	ID		ID	ID	9			ID	
A-11	A-4	ID	6A	ID		ID	9				ID	
X		ID	4A	ID	6A 4B	ID	6A 6B	ID	ID		ID	

* Probable Site
 ** Possible Site
 *** Suspect Site
 **** Control Site

N - Negation
 ID - Identification Only
 C - Completed Site

Remarks: Launch Site X negated on

TATISHCHEVO ICBM COMPLEX
continued

Old Designation	New Designation	Stage of Construction											
B-1		9											
B-2 ****		9 6B	ID										
B-3		ID	ID										
B-4		9											
B-5		9											
B-6		9											
B-7		9	ID										
B-8	C-1	ID											
B-9			ID										
B-10		9	ID										

* Probable Site N - Negation
 ** Possible Site ID - Identification Only
 *** Suspect Site C - Completed Site
 **** Control Site

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* Probable Site      N - Negation
** Possible Site     ID - Identification Only
*** Suspect Site     C - Completed Site

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UZHUR ICBM COMPLEX
continued

Old Designation	New Designation	Stage of Construction									
A		TD	TD	TD	6A		C				
B ****		6A			7						
		6B	TD	TD	6B		C				
C		6A	TD	TD	6A		C-8				
D		6A	TD	TD	6A		C				
E		6A	TD	TD	TD		C				
F		TD	TD	TD	6A		C				
G		TD	TD	TD	4A		4A				
H ****		4A			4A		4A				
		4A	TD	TD	6B		6B				
I		TD	TD	TD	4A		5				
J		TD	TD	TD	4A						
K		TD	TD	TD	4A	ID					
L											
	L****	TD	ID	ID		ID		ID			
M		TD	TD	TD	ID	ID	ID				

* Probable Site
** Possible Site
*** Suspect Site
**** Control Site

N - Negation
ID - Identification Only
C - Completed Site

TOP SECRET

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UZHUR ICBM COMPLEX

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* Probable Site           N - Negation
** Possible Site          ID - Identification Only
*** Suspect Site          C - Completed Site

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TOP SECRET
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ZHANGHIZ TOBE ICBM COMPLEX

continued

Old Designation	New Designation	Stage of Construction									
A****		ID		8	ID	ID					
B		ID		9	ID	ID					
C		ID		9	ID	ID					
D		ID	ID	6A	ID	ID					
E		ID	ID	6A	ID	ID					
F		ID	ID	4A	ID	ID					
G		ID		4A	ID	ID					
H		ID			ID	ID					
I		ID		4A	ID	ID					
(prob cont)				4A	ID						
J****		ID		4B	4B	ID					
K		ID		ID	ID	ID					
L**				N	ID	ID					
M*		N		1	ID	ID					
N*				N	ID	ID					

* Probable Site
 ** Possible Site
 *** Suspect Site

N - Negation
 ID - Identification Only
 C - Completed Site

TOP SECRET

TOP SECRET

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N - Negation
ID - Identification Only
C - Completed Site

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TYURATAM ICBM COMPLEX

Old Designation	New Designation	Stage of Construction											
I													
B-2													
A-3													
G-7		9 8											
K-1-K-2		ID											
I-2		3											
I-3		ID											
B-4		3											

* Probable Site
 ** Possible Site
 *** Suspect Site

N - Negation
 ID - Identification Only
 C - Completed Site

TOP SECRET

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TOP SECRET

TOP SECRET

251

252

25

CIA/PIR-61110

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TYURATAM ICBM COMPLEX
continued

Old Designation	New Designation	Stage of Construction											
L-1		9 6B	10 6B	10 6B	10 8								
L-2		9	10										
L-3		9		10									
L-4		ID		10									
L-5		9	10										
L-6		9	10										
L-7		9	10										
L-8		ID		10									
L-9		9		10									
L-10		9	10										
K-3													
G-8-69													

* Probable Site
** Possible Site
*** Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

Remarks: Entire group including
electronics will probably
be complete about mid-Feb.

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